

Patent Claims

What is claimed is:

1. A piston compressor, particularly a hermetically enclosed refrigerant compressor comprising:
a compressor block having a bore extending therethrough;
5 a crank shaft positioned for rotation in the bore, the crank shaft defining an eccentric crank pin at one end thereof;
the crank shaft and crank pin cooperating to define an oil channel arrangement;
10 a connecting rod attached at one end to a bearing element such that there is no relative motion between the bearing element and the connecting rod, the connecting rod having a passage extending therethrough and in communication with a channel formed by the
15 cooperation of the connecting rod and the bearing element;
the crank pin extending into the bearing element and being positioned for rotation relative thereto; and
a control arrangement providing communication between
20 the channel and the oil channel arrangement, at least once per revolution of the crank pin.
2. A compressor according to claim 1, wherein the control arrangement comprises at least one radial bore in the bearing element, which bore overlaps an oil source upon a rotation of the crank pin.

9. A compressor according to claim 8, wherein the bearing element defines two radial bores arranged at a predetermined distance relative to each other and to the opening of the passage.
10. A compressor according to claim 1, wherein the connecting rod defines a rod eye positioned over the bearing element, the bearing element and the rod eye and bearing element each include alignment marks.
11. A compressor according to claim 1, wherein in the circumferential direction the oil channel is limited to a predetermined section.

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